

CLAIMS

1. A method for amplifying a DNA by the use of a DNA fragment comprising a nucleotide analog as a template in the presence of nucleotide analogs, characterized in that the method for amplifying a DNA is carried out in the presence of two or more kinds of nucleotide analogs or in the presence of a compound for lowering T_m value of a double-stranded nucleic acid.

2. A method for amplifying a DNA by the use of a DNA fragment comprising a nucleotide analog as a template in the presence of nucleotide analogs, characterized in that the method for amplifying a DNA is carried out in the presence of one or more kinds of nucleotide analogs and a compound for lowering T_m value of a double-stranded nucleic acid.

3. The method for amplifying a DNA according to claim 1 or 2, characterized in that amplification of a DNA is carried out by polymerase chain reaction.

4. The method for amplifying a DNA according to ^{claim 1} ~~any one of claims 1 to 3~~, characterized in that the DNA fragment is a cDNA prepared by reverse transcription reaction using

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claim 1
e ~~of claims 1 to 8~~, characterized in that one or more kinds of compounds selected from the group consisting of formamide, dimethyl sulfoxide and trimethyl glycine are used as the compound for lowering T_m value of a double-stranded nucleic acid.

10. A kit for amplifying a DNA in the presence of a nucleotide analog by the use of a DNA fragment comprising a nucleotide analog as a template, characterized in that the kit comprises two or more kinds of nucleotide analogs or a compound for lowering T_m value of a double-stranded nucleic acid.

11. A kit for amplifying a DNA in the presence of a nucleotide analog by the use of a DNA fragment comprising a nucleotide analog as a template, characterized in that the kit comprises one or more kinds of nucleotide analogs and a compound for lowering T_m value of a double-stranded nucleic acid.

12. The kit according to claim 10 or 11, characterized in that the kit comprises a reagent for synthesizing a cDNA which is complementary to an RNA in the presence of nucleotide analogs.

claim 10

13. The kit according to ~~any one of claims 10 to 12~~,
characterized in that the kit comprises as the nucleotide
analog a nucleotide analog having a property of lowering
 T_m value of a double-stranded nucleic acid to which the
nucleotide analog is to be incorporated.

claim 10

14. The kit according to ~~any one of claims 10 to 13~~,
characterized in that the kit comprises a nucleotide
analog to be incorporated in a DNA strand in place of dATP
or dTTP, and a nucleotide analog to be incorporated in a
DNA strand in place of dCTP or dGTP.

claim 10

15. The kit according to ~~any one of claims 10 to 14~~,
wherein the nucleotide analog is selected from the group
consisting of 7-Deaza-dGTP, 7-Deaza-dATP, dITP and
hydroxymethyl dUTP.

claim 10

16. The kit according to ~~any one of claims 10 to 15~~,
characterized in that the kit comprises, as the compound
for lowering T_m value of a double-stranded nucleic acid,
one or more kinds of compounds selected from the group
consisting of formamide, dimethyl sulfoxide and trimethyl
glycine.

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